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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/700,495	11/05/2003	Kensaku Motoki	52775-026	6279	
7590 09/16/2004  McDermott, Will & Emery			EXAM	EXAMINER	
			NGUYEN, THINH T		
600 13th Street, N.W. Washington, DC 20005-3096			ART UNIT	PAPER NUMBER	
washington, D	20003 2070		2818		
			DATE MAILED: 09/16/200	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

			KIĆ			
	Application No.	Applicant(s)				
Office Action Commence	10/700,495	MOTOKI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Thinh T Nguyen	2818				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered timely the mailing date of this or D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 05 No	<u>ovember 2003</u> .					
· <u> </u>	action is non-final.					
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	x parte quayro, 1000 0.5. 11, 10					
4)⊠ Claim(s) <u>1-72</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.	6) Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.	·					
8) Claim(s) <u>1-72</u> are subject to restriction and/or e	lection requirement.					
Application Papers						
·— · · · · · · · · · · · · · · · · · ·	9) The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on 11/05//2003 is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No. 10/246559.						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
	,					
Attachment(s)  1)  Notice of References Cited (PTO-892)	4) Interview Summary	(PTO 413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5)  Notice of Informal P 6) Other:	atent Application (PTC	D-152)			

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## **DETAILED OFFICE ACTION**

## Election/Restrictions

Claims 1- 72 are pending in this application.

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - Group I. Claims 1-30, drawn to a semiconductor device, classified in class 257, subclass 103.
- Group II. Claims 31-72, drawn to process of making a semiconductor device, classified in class 438, and subclass 22.
- 2. The inventions are distinct, each from the other because of the following reasons:

Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of following can be shown: (1) that the process as claimed can be use to make other and materially different product or by hand, or (2) that process as claimed can be made by another and materially different process. (MPEP § 806.05(f)). In the instance case unpatentabilities of the group I invention would not necessarily imply unpatentability of the group II invention, since the device of the group I invention could be made by the processes materially different from those of the group II invention, for example, in the claim 32, a method for fabricating the device of claim 1 wherein the step of growing a GaN crystal on the under substrate can be in Liquid phase which is a materially different method from claim 32 using vapor phase.

3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, the fields of search are not co-extensive. Therefore, separate examination would be required and restriction for examination purposes as indicated is proper.

4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently filed petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(h).

5. Any inquiry concerning this communication on earlier communications from the examiner should be directed to Thinh T Nguyen whose telephone number is 471-272-1790. The examiner can normally be reached on Monday-Friday from 9.00 AM to 6.00 PM. The examiner's supervisor, David Nelms can be reached on 471-272-1790. The-fax phone number for the organization where this application or proceeding is assigned is (703) 308-7724.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Supervisory Patent Examiner

**Technology Center 2800** 

Thinh T Nguyen 77)

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